

Release notes for ENDF/B Development n-035_Br_081
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=3531, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=3531, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      294 TO      378
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=3531, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=3531, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      294
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3531, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      380
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      745
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      776
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      807
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      828
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 838

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 843

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 855

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 32
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 867

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 33 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 33
SECTION 3/ 33 NOT IN DIRECTORY RECORD NUMBER 874

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 880

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 901

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 921

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 54 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 54 | RECORD NUMBER | 941 |
| SECTION 3/ 54 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 55 | RECORD NUMBER | 961 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 56 | RECORD NUMBER | 980 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 57 | RECORD NUMBER | 999 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 58 | RECORD NUMBER | 1017 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 59 | RECORD NUMBER | 1035 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 60 | RECORD NUMBER | 1052 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 61 | RECORD NUMBER | 1069 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 62 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 62 | RECORD NUMBER | 1086 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 63 | RECORD NUMBER | 1102 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 64 | RECORD NUMBER | 1117 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 65 | RECORD NUMBER | 1132 |
| SECTION 3/ 65 NOT IN DIRECTORY | | |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 66 | RECORD NUMBER | 1146 |
| SECTION 3/ 66 NOT IN DIRECTORY | | |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 67 | RECORD NUMBER | 1160 |
| SECTION 3/ 67 NOT IN DIRECTORY | | |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 68 | RECORD NUMBER | 1174 |
| SECTION 3/ 68 NOT IN DIRECTORY | | |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 69 | RECORD NUMBER | 1187 |
| SECTION 3/ 69 NOT IN DIRECTORY | | |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 70 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 70 | RECORD NUMBER | 1200 |
| SECTION 3/ 70 NOT IN DIRECTORY | | |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 71 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 71 | RECORD NUMBER | 1212 |
| SECTION 3/ 71 NOT IN DIRECTORY | | |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 72 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 72 | RECORD NUMBER | 1224 |
| SECTION 3/ 72 NOT IN DIRECTORY | | |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 73 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 73 | RECORD NUMBER | 1235 |
| SECTION 3/ 73 NOT IN DIRECTORY | | |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 74 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 74 | RECORD NUMBER | 1246 |
| SECTION 3/ 74 NOT IN DIRECTORY | | |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 75 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 75 | RECORD NUMBER | 1256 |
| SECTION 3/ 75 NOT IN DIRECTORY | | |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 76 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 76 | RECORD NUMBER | 1266 |
| SECTION 3/ 76 NOT IN DIRECTORY | | |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT= 91 | RECORD NUMBER | 1276 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT=102 (0): Directory (b)

- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT=102 | |
| SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER 1285 |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT=103 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT=103 | |
| SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER 1311 |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT=104 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT=104 | |
| SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER 1326 |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT=105 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT=105 | |
| SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER 1339 |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 3, MT=107 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 3, MT=107 | |
| SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER 1350 |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 2 (0): Directory (b)
- | | |
|--|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 2 | |
| SECTION 4/ 2 NOT IN DIRECTORY | RECORD NUMBER 1367 |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 16 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 16 | |
| SECTION 4/ 16 NOT IN DIRECTORY | RECORD NUMBER 1579 |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 17 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 17 | |
| SECTION 4/ 17 NOT IN DIRECTORY | RECORD NUMBER 1590 |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 22 (0): Directory (b)

- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 22 | |
| SECTION 4/ 22 NOT IN DIRECTORY | RECORD NUMBER 1601 |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 28 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 28 | |
| SECTION 4/ 28 NOT IN DIRECTORY | RECORD NUMBER 1612 |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 32 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 32 | |
| SECTION 4/ 32 NOT IN DIRECTORY | RECORD NUMBER 1623 |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 33 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 33 | |
| SECTION 4/ 33 NOT IN DIRECTORY | RECORD NUMBER 1634 |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 51 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 51 | |
| SECTION 4/ 51 NOT IN DIRECTORY | RECORD NUMBER 1645 |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 52 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 52 | |
| SECTION 4/ 52 NOT IN DIRECTORY | RECORD NUMBER 1673 |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 53 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 53 | |
| SECTION 4/ 53 NOT IN DIRECTORY | RECORD NUMBER 1700 |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 54 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 54 | |
| SECTION 4/ 54 NOT IN DIRECTORY | RECORD NUMBER 1727 |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 55 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 55 | RECORD NUMBER | 1754 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 56 | RECORD NUMBER | 1781 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 57 | RECORD NUMBER | 1808 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 58 | RECORD NUMBER | 1835 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 59 | RECORD NUMBER | 1862 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 60 | RECORD NUMBER | 1889 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 61 | RECORD NUMBER | 1916 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 62 | RECORD NUMBER | 1943 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 63 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 63 | RECORD NUMBER | 1968 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 64 | RECORD NUMBER | 1993 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 65 | RECORD NUMBER | 2018 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 66 | RECORD NUMBER | 2043 |
| SECTION 4/ 66 NOT IN DIRECTORY | | |
67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 67 | RECORD NUMBER | 2068 |
| SECTION 4/ 67 NOT IN DIRECTORY | | |
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 68 | RECORD NUMBER | 2093 |
| SECTION 4/ 68 NOT IN DIRECTORY | | |
69. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 69 | RECORD NUMBER | 2118 |
| SECTION 4/ 69 NOT IN DIRECTORY | | |
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 70 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 70 | RECORD NUMBER | 2143 |
| SECTION 4/ 70 NOT IN DIRECTORY | | |
71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 71 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 71 | RECORD NUMBER | 2168 |
| SECTION 4/ 71 NOT IN DIRECTORY | | |
72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 72 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 72 | RECORD NUMBER | 2193 |
| SECTION 4/ 72 NOT IN DIRECTORY | | |
73. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 73 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 73 | RECORD NUMBER | 2218 |
| SECTION 4/ 73 NOT IN DIRECTORY | | |
74. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 74 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 74 | RECORD NUMBER | 2243 |
| SECTION 4/ 74 NOT IN DIRECTORY | | |
75. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 75 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 75 | RECORD NUMBER | 2268 |
| SECTION 4/ 75 NOT IN DIRECTORY | | |
76. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 76 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 76 | RECORD NUMBER | 2293 |
| SECTION 4/ 76 NOT IN DIRECTORY | | |
77. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 4, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 4, MT= 91 | RECORD NUMBER | 2318 |
| SECTION 4/ 91 NOT IN DIRECTORY | | |
78. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 5, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3531, MF= 5, MT= 16 | RECORD NUMBER | 2345 |
| SECTION 5/ 16 NOT IN DIRECTORY | | |
79. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 5, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 5, MT= 17
SECTION 5/ 17 NOT IN DIRECTORY RECORD NUMBER 2393

80. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 5, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 5, MT= 22
SECTION 5/ 22 NOT IN DIRECTORY RECORD NUMBER 2410

81. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 5, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 5, MT= 28
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 2543

82. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 5, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 5, MT= 32
SECTION 5/ 32 NOT IN DIRECTORY RECORD NUMBER 2643

83. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 5, MT= 33 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 5, MT= 33
SECTION 5/ 33 NOT IN DIRECTORY RECORD NUMBER 2679

84. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3531, MF= 5, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=3531, MF= 5, MT= 91
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 2708

- **psyche** Warnings:

1. Non-threshold reaction with Q value differing from PSYCHE's expectations
FILE 3 / SECTION 107 / THE CALCULATED Q 3.81904E+05 DISSAGREES WITH THE GIVEN Q 4.18215E+05 (0): Iffy Q

FILE 3
SECTION 107
THE CALCULATED Q 3.81904E+05 DISSAGREES WITH THE GIVEN Q 4.18215E+05

- **recent** Warnings:

1. Statistical weight of certain L values were incorrect
0: RRR goof (a)

```
=====
Retrieval Criteria----- MAT
File 2 Mimimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [656 more lines]
```

• fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved (Error # 1): missingResonanceChannel

```
WARNING: Missing a channel with angular momenta combination L = 0, J = 0.0 and S = 0.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.0 and S = 0.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.0 and S = 1.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.0 and S = 1.0 for "capture"
```

2. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.20%
```

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.11%
```

• fudge-4.0 Errors:

1. The spin statistical weights are off, indicating missing channels
resonances / resolved / MultiLevel_BreitWigner (Error # 0): badSpinStatisticalWeights

```
WARNING: The spin statlcal weights for L=1 sums to 2.0, but should sum to 3.0. You have too few channels for re
```

2. Calculated and tabulated Q values disagree.
reaction label 28: n[multiplicity:'2'] + Br80 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -10138635.67140198 eV vs -1.01611e7 eV!
```

3. Calculated and tabulated Q values disagree.
reaction label 29: n[multiplicity:'3'] + Br79 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -18030911.56156921 eV vs -1.80582e7 eV!
```

4. Calculated and tabulated Q values disagree.
reaction label 30: n + H1 + Se80 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -7485825.698913574 eV vs -7508340. eV!
```

5. Calculated and tabulated Q values disagree.
reaction label 31: n + H2 + Se79 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -15174911.10391235 eV vs -1.5115e7 eV!
```

6. Calculated and tabulated Q values disagree.
reaction label 32: n + H3 + Se78 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -15880510.22488403 eV vs -1.58951e7 eV!

7. Calculated and tabulated Q values disagree.
reaction label 33: Br82 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 7610991.293029785 eV vs 7593420. eV!

8. Calculated and tabulated Q values disagree.
reaction label 34: n + He4 + As77 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6465129.062042236 eV vs -6482190. eV!

9. Calculated and tabulated Q values disagree.
reaction label 35: H1 + Se81_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -784925.1058654785 eV vs -802533. eV!

10. Calculated and tabulated Q values disagree.
reaction label 36: H2 + Se80_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5261259.597976685 eV vs -5198220. eV!

11. Calculated and tabulated Q values disagree.
reaction label 37: H3 + Se79_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8917678.163299561 eV vs -8929860. eV!

12. Calculated and tabulated Q values disagree.
reaction label 38: He4 + As78_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 507030.0494384766 eV vs 418215. eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 32
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 33
only mf4/mf5 provided

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (6): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided